

Duke Energy's Renewable & Clean Energy Initiatives

WIND

- Duke Energy generates 730 megawatts of electricity at wind farms in Pennsylvania, Texas and Wyoming. The company will bring an additional 251 megawatts on line in Wyoming and Colorado by December 2010.
- Duke Energy, working with the University of North Carolina, will install up to three electricity-generating wind turbines in North Carolina's Pamlico Sound – one of the nation's first offshore wind projects – to study the feasibility of large wind farms along the state's Atlantic coast.
- Duke Energy provides Wal-Mart® with wind-generated electricity for 15 percent of the retail chain's 360 stores, warehouses and other buildings in Texas.

SOLAR

- Duke Energy purchases the entire electricity output (currently 4 megawatts) from what eventually will be one of the nation's largest solar farms (16 megawatts), being built in phases in Davidson County, North Carolina.
- Duke Energy is installing electricity-generating solar panels at 40 North Carolina sites, including office buildings and warehouses. The \$50 million initiative is creating a power-generation network capable of supplying enough electricity to meet the needs of 1,300 homes.

HYDRO

- Duke Energy maintains 3,200 megawatts of hydroelectric capacity as the nation's second-largest, investor-owned hydro operator. The company owns and operates an additional 3,000 megawatts of hydro capacity in South America.

BIOMASS

- Duke Energy and AREVA operate a joint venture that builds power plants fueled by wood waste – the nation's first "biopower" (biomass-to-electricity) partnership between two major energy companies.

LANDFILL GAS

- Duke Energy buys 5 megawatts of electricity generated by the combustion of methane gas vented from decaying garbage underground at two landfills in North Carolina and South Carolina.

ELECTRIC VEHICLES

- Duke Energy is working closely with major automakers to lay the groundwork for deployment of vehicle-charging stations, critical for the large-scale launch of plug-in electric vehicles.

ENERGY EFFICIENCY

- Duke Energy is investing \$1 billion to improve the efficiency of its substations, power lines and electric and natural gas meters, using advanced "smart grid" technology.
- Duke Energy operates major energy efficiency programs to help its 4 million residential and business customers in North Carolina, South Carolina, Indiana, Ohio and Kentucky use less electricity and save money.

THE FUTURE

- Duke Energy is studying ways to use renewable energy and energy efficiency programs to potentially meet as much as 23 percent of its customers' electricity demand by 2030.

